

09/700236

PAP110-PCT

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APPROVED	O.G. FIG.
	CLASS
BY	SUBCLASS
DRAFTSMAN	

$\text{Ga}_x\text{Al}_{1-x}\text{N}$  ( $0 \leq x \leq 1$ ) CRYSTAL

AIN SINGLE BUFFER LAYER

SAPPHIRE SUBSTRATE

FIG. 1

$\text{Ga}_x\text{Al}_{1-x}\text{N}$  ( $0 \leq x \leq 1$ ) CRYSTAL

$\text{Ga}_y\text{Al}_{1-y}\text{N}$  ( $0 < y \leq 1$ )  
SINGLE BUFFER LAYER

SAPPHIRE SUBSTRATE

FIG. 2

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APPROVED	O.G.	FIG.
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GaN/GaN DOUBLE  
BUFFER LAYER

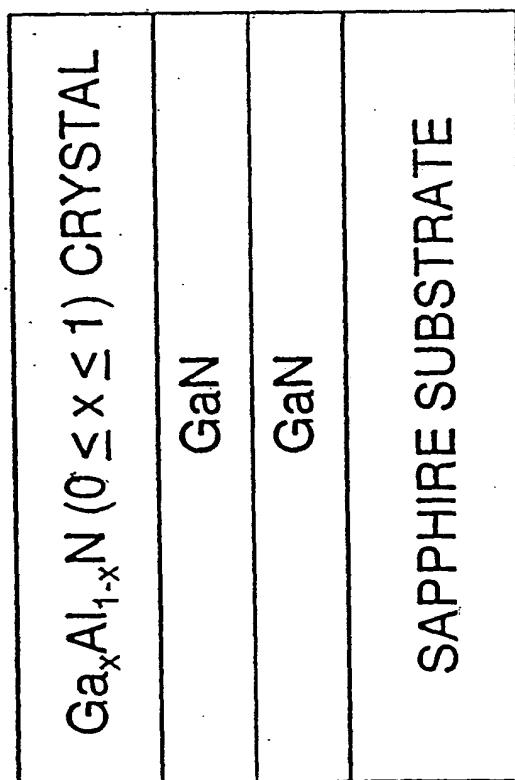


FIG. 3

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APPROVED	O.G. FIG.
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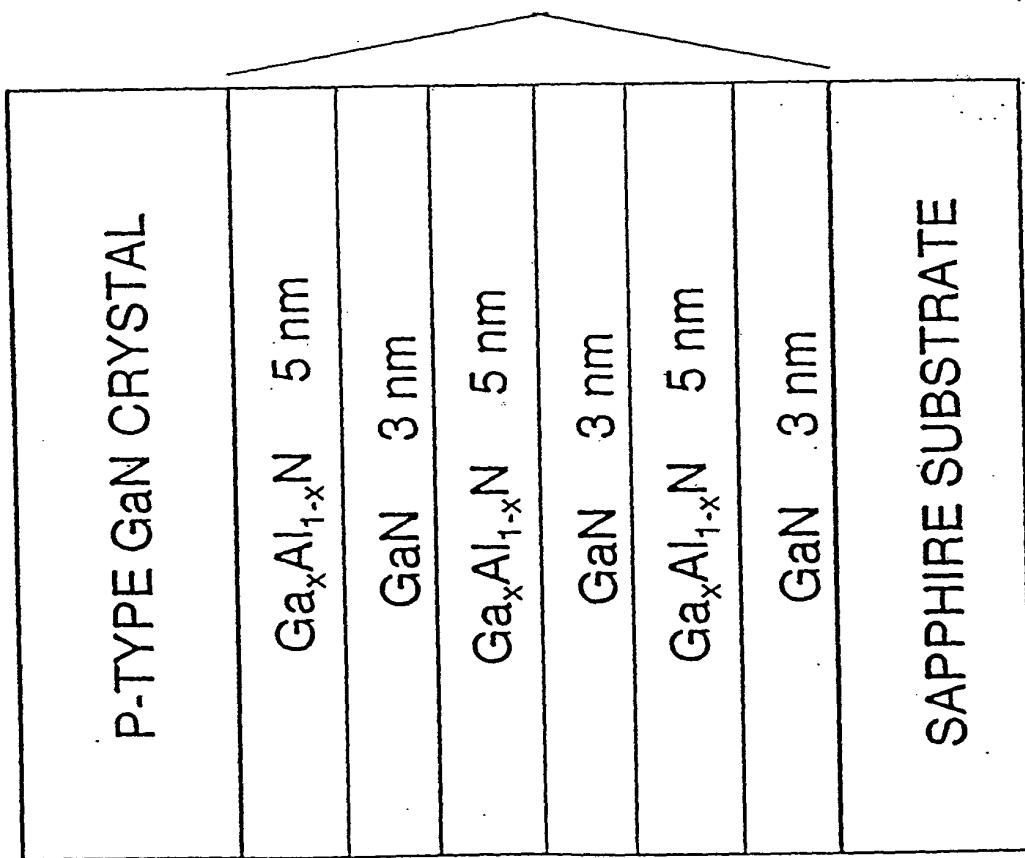


FIG. 4

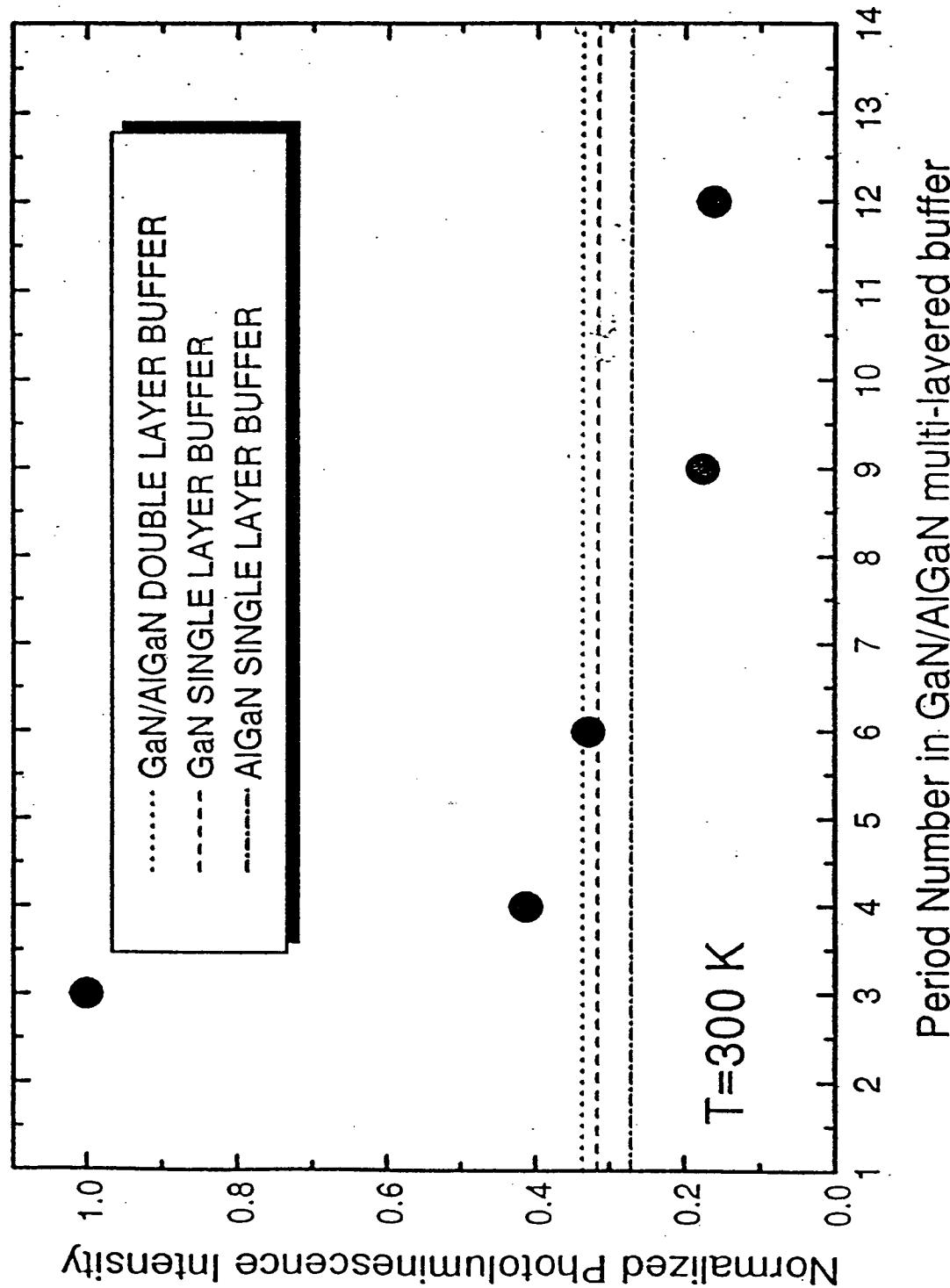
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FIG. 5



PENDING 200200

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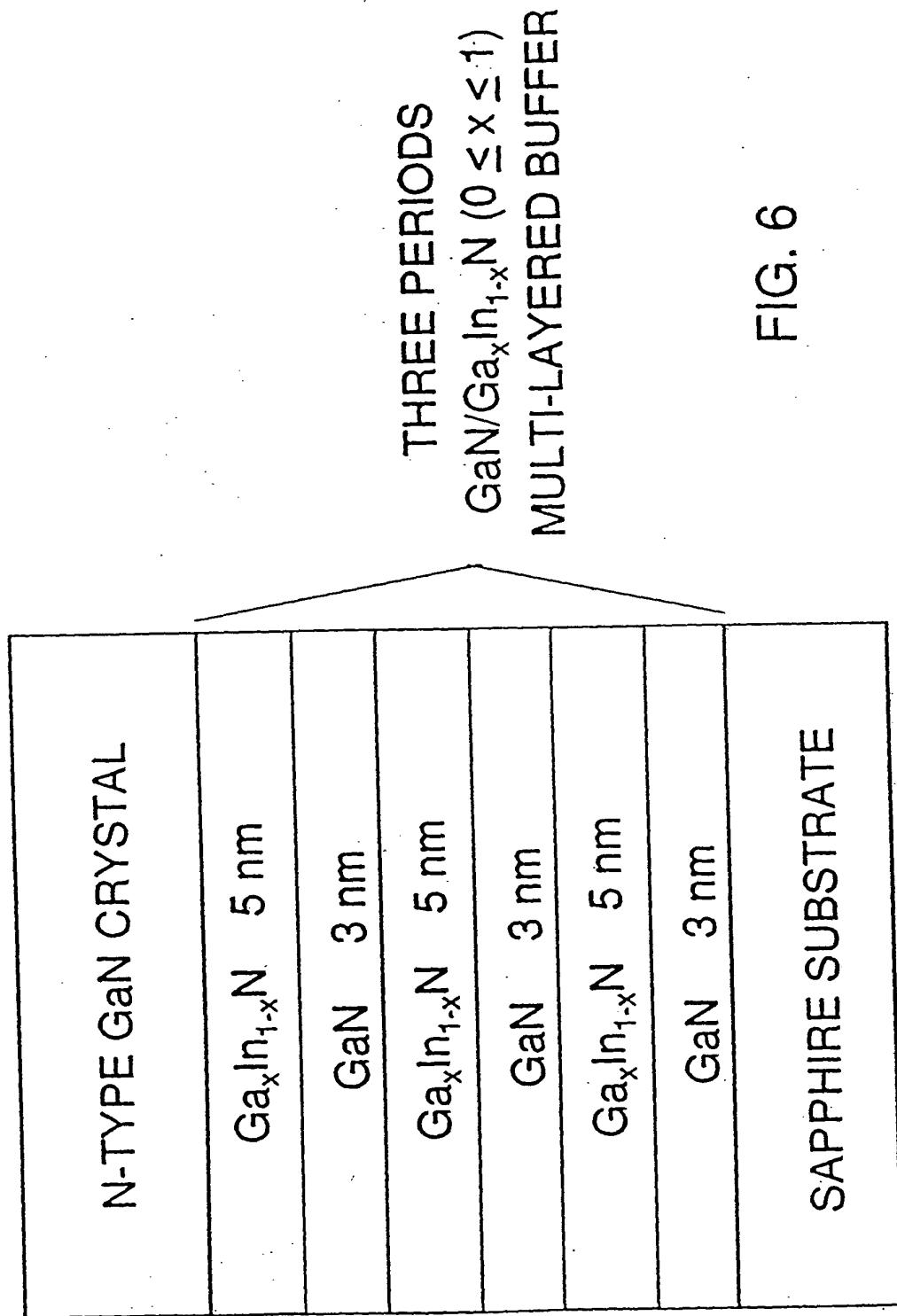


FIG. 6

TO 6050 " 95200 450

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APPROVED	O.G. FIG.
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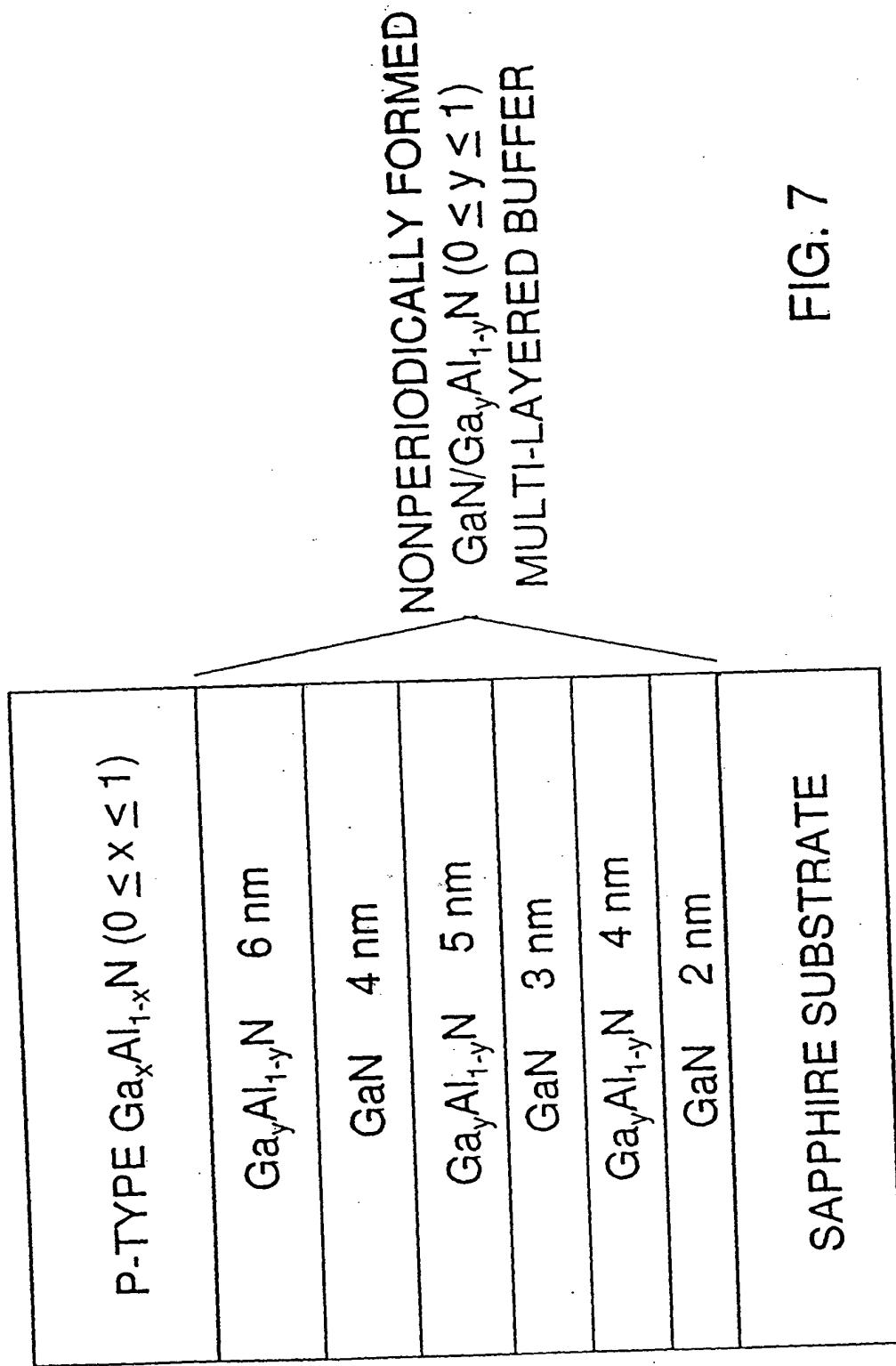


FIG. 7

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APPROVED	O.G. FIG.
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N-TYPE  $\text{Ga}_x\text{Al}_{1-x}\text{N}$  ( $0 \leq x \leq 1$ )  
COMPOSITION-VARIED  
 $\text{GaN}/\text{Ga}_y\text{In}_{1-y}\text{N}$  ( $0 \leq y \leq 1$ )  
MULTI-LAYERED BUFFER

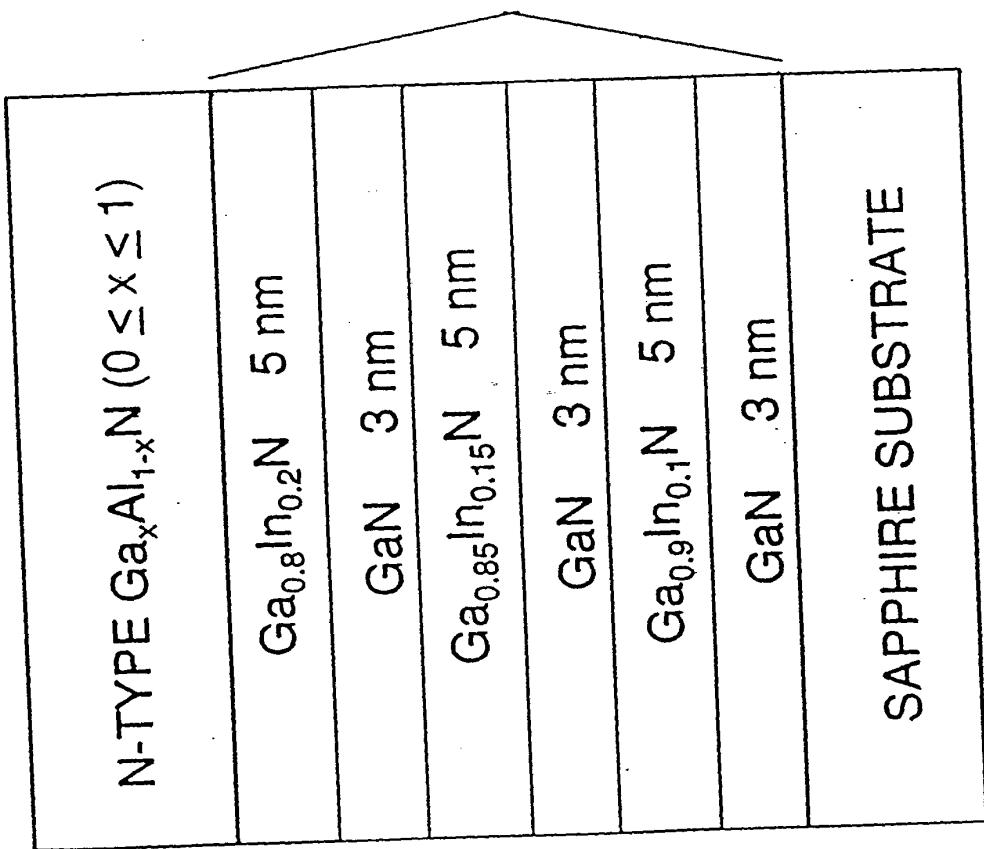


FIG. 8